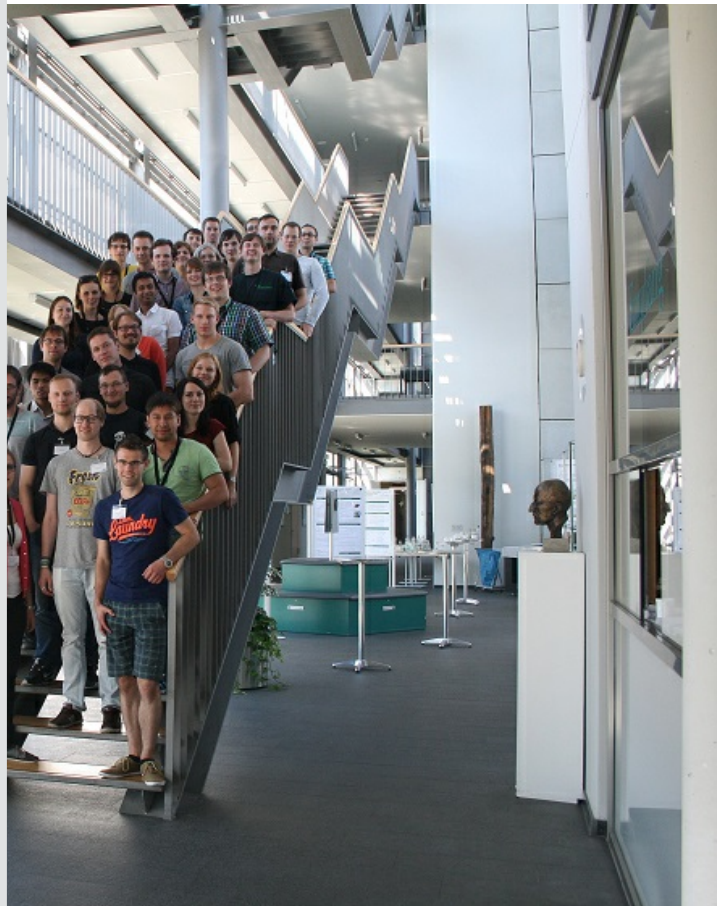
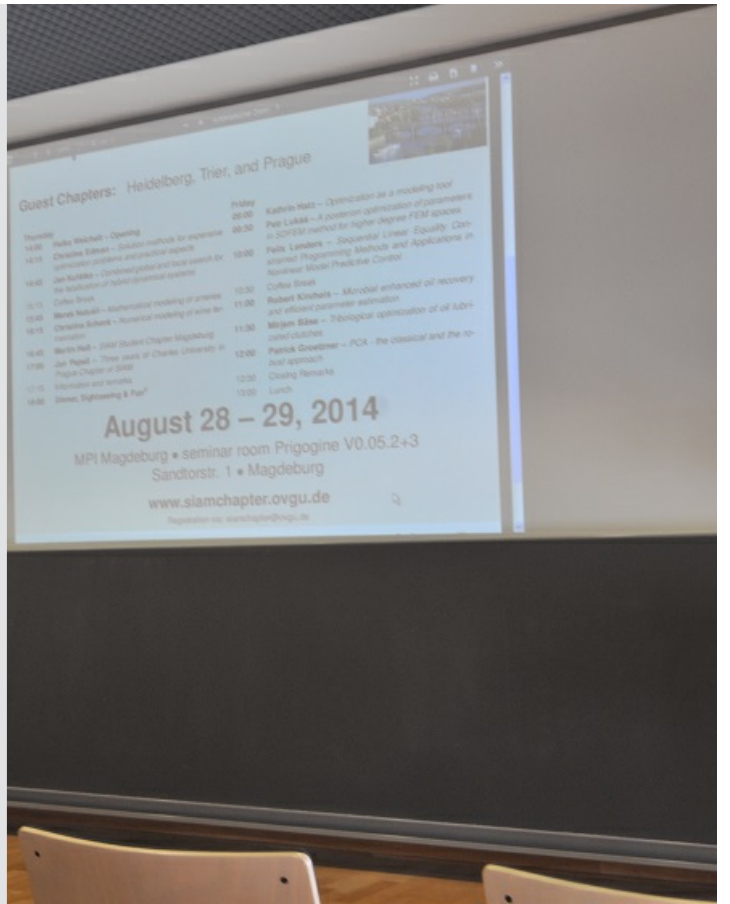


STUDENT CHAPTER OF SIAM MAGDEBURG

apters

man SIAM Student Chapters in Trier (2012) and Heidelberg (2013), tl
We expected guests from the German SIAM Chapters in Heidelberg





rigid biological system

honing plate (counter body)

transmission oil (intermediate medium)

steel plate (basic body)

parameters:

- final machining procedure
- crossing angle
- honing tool
- differential speed $n=50 \text{ min}^{-1}$
- temperature $T=(25, 60) \text{ }^\circ\text{C}$
- $p=1 \text{ N/mm}^2$

real standard

honing 0°

honing 50°

honing 115°

honing 150°

2 M.Sc. Miryam Blass & Jol Synthesizer of the German BHM Student Chapters
 Topological optimization of an honed surface
 29. Jan 2018, slide 17

Prof. Dr. habil. GERT-ERIK MAURBERG

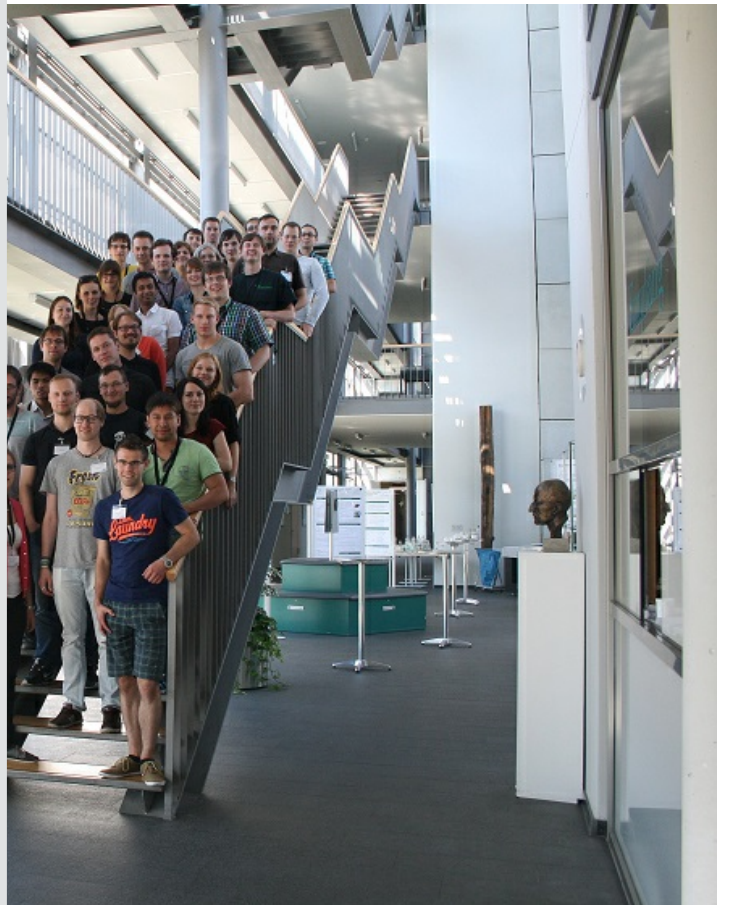
Figure - Collagen fibers

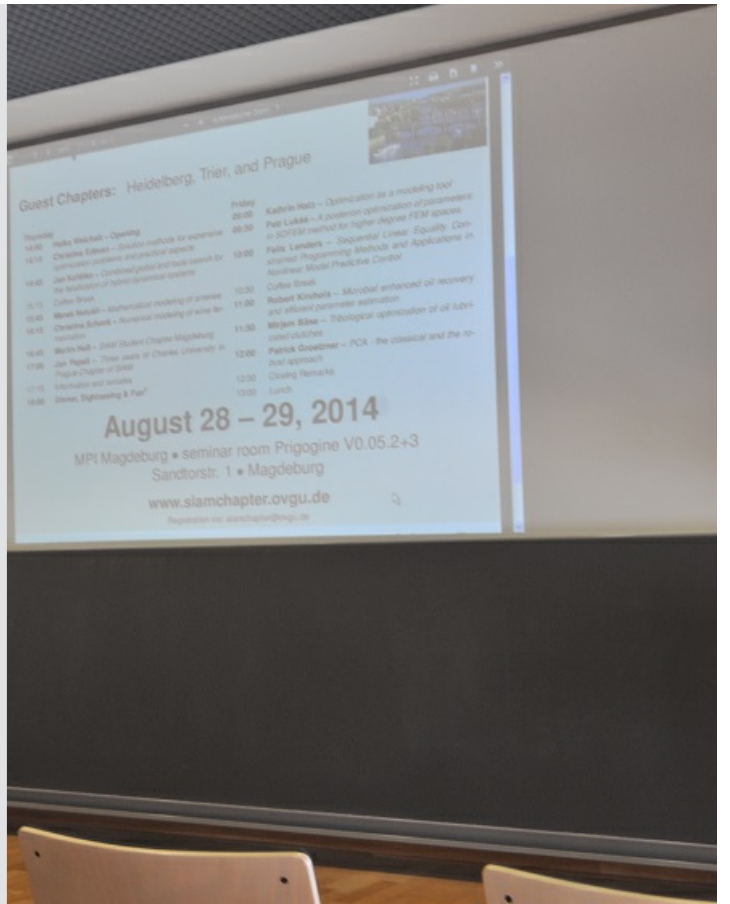
Mechanical modeling of tissues

28th August, 2024 25 / 38









rigid biological system

Ernst plate (counter body)

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honing 0°

honing 50°

honing 115°

honing 150°

2 | M.Sc. Mirjam Bitter + 3rd Symposium of the German SGM Student Chapters
 Topological optimization of an honed surface
 29. Jan 2014, slide 17

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Figure - Collagen fibers

Mathematical modeling of arteries | 29th August, 2014 | 13 / 18







« Zurück3rd_symposium_009 (Bild 9 von 10) » Vorwärts



participated to extend the international connections.

rigogine V0.05.2+3

f the four participating SIAM Student Chapters gave talks about their
de spectrum in applied mathematics, such as optimization,
n, and application examples. The first half of the scientific program
bar for dinner. Later, an exciting discovery tour awaited us, we
ough the medieval Magdeburg. The program ended on Friday
collaborations.



m of the Student



Trier, and Prague

Friday

- 09:00** **Kathrin Hatz** - Optimization as a modeling tool
- 09:30** **Petr Lukáš** - A posteriori optimization of parameters in SDFEM method for higher degree FEM spaces
- 10:00** **Felix Lenders** - Sequential Linear Equality Constrained Programming Methods and Applications in Nonlinear Model Predictive Control
- 10:30** Coffee Break
- 11:00** **Robert Kircheis** - Microbial enhanced oil recovery and efficient parameter estimation
- 11:30** **Mirjam Bäse** - Tribological optimization of oil lubricated clutches
- 12:00** **Patrick Groetzner** - PCA - the classical and the robust approach
- 12:30** Closing Remarks
- 13:00** Lunch

28 - 29, 2014

inar room Prigogine V0.05.2+3
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via: siamchapter@ovgu.de



problems and practical aspects

ization of hybrid dynamical systems

apter of SIAM

IM method for higher degree FEM

ning Methods and Applications in

parameter estimation

es



15.02.2024

Seminar Prof. Dr.-Ing. Daniel Juhre

06.11.2023

Nerd Nite 2023

22.09.2023

Naturkundemuseum

> more...

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